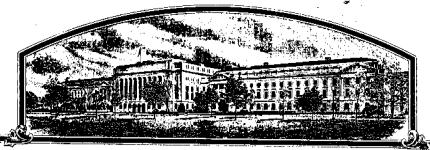
No.



7700066

# THE UNITED STATES OF AMIERION

TO ALL TOWHOM THESE PRESENTS SHALL COME;

# Asgrow Seed Company

Colherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SCUCKEON YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC DO OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXPORTING IT, OR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

### BEAN

'Gabriella'

In Lestimony Winercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this third day of November in the year of our Lord one thousand nine hundred and seventy-seven

Commissioner

Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Alles

Secretary of Agriculture

FORM APPROVED OMB NO. 40-R3712

GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY BELTSVILLE, MARYLAND 20705

## ADDITION FOR DI ANTIVARIETY RECTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.	FOR PLANT \	VARIETY PROTECTI	ION CERTIFICATE	<u> </u>		
1a. TEMPORARY DESIGNATION OF VARIETY	16. VARIETY NA	AME	FOR OFFICIAL USE ONLY			
		17	77000	66		
XP-B3011	Gabrie	- · · - · - · ·				
2. KIND NAME	3. GENUS ANDS	grecies name	5-31-77	TIME NOO P.M.		
Garden Bean		lus vulgaris	FEE RECEIVED	DATE 1 - DT		
4. FAMILY NAME (BOTANICAL)	S. DATE OF DE	TERMINATION	\$ 250 · 00	5-31-77		
Leguminosae		ber, 1971	\$ 250.00	10-27-77		
6. NAME OF APPLICANT(S)	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)			6. TELEPHONE AREA CODE AND NUMBER		
Asgrow Seed Company		zoo, Michigan 49	001	(616) 385-6605		
9. IF THE NAMED APPLICANT IS NOT A PER ORGANIZATION: (Comporation, partnership, a			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION POR.			
Corporation  Delaware  March 22, 1968  12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers						
Asgrow Seed Company 7000 Portage Road Unit 9630-190-1 Kalamazoo, Michigan 4900		D:				
13A. Exhibit A, Origin and Breedi  13B. Exhibit B, Novelty Statemer  13C. Exhibit C, Objective Descrip  13D. Exhibit D, Additional Descr	nt. tion of the Varie	ty (Request form from Pl	•	,		
14A. Does the applicant(s) specify that see (See Section 83(a). (If "Yes," answe	r 14B and 14C be	pe sold by variety name on below.)		l seed?		
14B. Does the applicant(s) specify that this limited as to number of generations.	s variety be	14C. If "Yes," to 14B, he breeder seed?	ow many generations of	f production beyond		
	YES NO	FOUNDATION	REGISTERED	CERTIFIED		
15. Does the applicant(s) agree to the pub	olication of his/he	er (their) name(s) and add	lress in the Official Jour	rnal?  X YES NO		
<ol> <li>The applicant(s) declare(s) that a vial a certificate and will be replenished p</li> </ol>	ole sample of basi eriodically in acc	ic seed of this variety will ordance with such regulat	be deposited upon required ions as may be applicated	uest before issuance of ble.		
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.						
Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.						
	_	John a.	Battle SIGNATURE OF APPLIC			
(DATE)			SIGNATURE OF APPLIC John A. Batcha	C000 <b>1</b>		
(DATE)			SIGNATURE OF APPLIC			

#### EXHIBIT A

Origin and Breeding History of Gabriella (XP-B3011) Wax Bean

The original cross, Maxidor x Watex, was made in 1968 and Gabriella was developed by straight selection from this cross. In the summer of 1971, it was determined that the line was distinct and that it had definite potential as a wax variety; the line was designated as XP-B3011.

Since 1971, further selections to improve stock uniformity have been made, and the line has been in extensive trials in the United States and Europe. The line has been progeny tested and is homozygous for resistance to the strain of Colletotrichum lindemuthianum (Anthracnose). This resistance confers resistance to all common strains of Anthracnose, but not to the strain recently discovered at Ebnet, Germany.

The Breeder's Seed was developed by growing progenies from 500 Single Plant Selections. All progenies were very similar, but any progeny which was suspect in any way was eliminated. The remaining progenies were harvested as a bulk to become Breeder's Seed. Gabriella is a true breeding, homozygous line. We have found no off-types.

JDA 1/21/77

#### INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

#### ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give (1), the genealogy, including public and commerical varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C.

  Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

	FORM	4 GR-470-12	(PAGE 2 OF 3 P	AGES)		7700066	<u> </u>	XP-B3011	· · · · · · · · · · · · · · · · · · ·
	6. F	LOWERS:	1	2 = CREAM	3 = PINK	4 = LILAC	5 = PURPLE		
	2	Color:	1 = WHITE 6 = OTHER	(Specify)	<u>-</u> .				
	2	Racemes:	1 = LONG	2 = MEDIUM	3 = \$HOR	T 3 NUMBE	R FLOWERS PE	R RACEME	
	7. F	RESH PODS	: (Edible maturit	y, averages for 10 pc	ds)				
	5	Color	1 = LIGHT GRE	EN (Bountiful)		JM GREEN (Tender	•	3 = DARK GREEN	
			4 = LIGHT YEL	LOW (Brittlower)	5 = GOLD	EN YELLOW (Chero	okee Wax)	6 = GREEN-RED V (Horticultural)	
; ;			7 = OTHER (Spe	ocity)	-			<del>ا استانا</del> «	אדמו
		3 см. с	ENGTH	0 9 MM. W	DTH on autures)	0 9 MM. TH	ICKNESS	1 0 THIC	X 10
	4	Cross sect	tion pod shape:	1 = FLAT	2 = OVAL	3 = CREASEBACK	4 = ROUN	d	. •
1	2	Curvature:	1 = STRAIGHT 3 = CURVED	2 = \$LIGHTLY C	URVED .	2 Pube scence:	1 = NONE	2 = SPARSE 3	= CONSIDERABLE
-	1	Constrictio	as: 1 = NONE	2 = SLIGHT 3	= DEEP	2 Spur: 1 = S	TRAIGHT 2	= SLIGHTLY CUR	VED 3 = CURVED
1	2	Surface:	) = SHINY	2 = DULL		1 Surface:	, ] = SMOOTH	2 = BLISTER	RED
	1	Pod flesh:	1 = LIGHT	2 = DARK	·	1 Pod flesh:	1 = FIRM	2 = WATERY	
}	15	MM. SPUR	LENGTH			2 Suture string	: 1 = PRESEN	T 2 = ABSENT	
	2	Fiber: 1	= NONE 2 =	SPARSE 3 = CON	SIDERABLE	2 Seed develop	oment: 1 = SL	.OW 2 = MEDIU	M 3 = FAST
	_	7	OF SEEDS PER F					T (Once over harv	ot ADAPTED
- 1	<u></u>			DOS PER PLANT (0	nce over harvest)	Machine har	Vest: 1 = A1	DAPTED 2 = NO	- ADAPTED
	<b>8.</b>	SEED COAT		= POLYCHROME		1 = SHIR	1Y 2 = DU	ILL	•
-	<u>ئىل</u>	j		1 = WHITE	? = YELLOW	3 = BUFF 4	I = TAN-		• .
;		Primary	colot:		5 = PINK		= PURPLE	-	
		Seconda	ry color:)		) = BLACK	11 = OTHER (Spe	city)	<u> </u>	•
-		Color pat	tem: 1 = SF	PLASHED 2 = MC	TTLED 3 = 1	STRIPED 4 = F	FLECKED 5	= DOTTED	
		Secondary	color location:	1 = HILAR RING 3 = STROPHIOLE 5 = SIDES		4 = MICRO	AL SURFACE	**************************************	
:		l Hilar rio	g: ] = NOT P:	7 = NOT RESTRIC		EA B = COMB TTERFLY SHAPED		OCATIONS (Specif	<i>,</i>
	Ī	์ ภ		n: ] = ABSENT	_	•		·	·
	9.	SEED SHA	PE AND SIZE:			<del></del> -	1 - 0441	2 = ROUND	
-	1	Hilum vie	ew: 1 = ELLIP	TICAL 2 = OVAL	3 = ROUND	1 Side view:	1 = OVAL 3 = KIONE	=	TE ENDS
:	2	Cross se	ction: 1 = ELLI 3 = CORE			25 GM. WEIGH	IT PER 100 SE	EOS	
		4 Classific	atios: 1 :	: PEA 2 = M	EDIUM 3	MARROW	4 = KIDNEY	5 = PINTO	
		0 6 мм.	WIDTH (Doreal t	o vantra D		0 5 MM. 1	THICKNESS (SIC	de to eide)	
		1 2 444.	LENGTH		· · · · · · · · · · · · · · · · · · ·	0 1 2	WIDTH THICKNESS	x 10	<u> </u>
								በበበስና	

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REFERENCES: The following publications may be used as a reference in completing this form:

- Beans of New York. Vol. 1 Part II of Vegetables of New York. U.P. Hedrick et al. J. B. Lyon Company, Albany, N.Y. 1931.
- 2. Yarnell, S. H., Cytogenetics of the Vegetable Crops IV. Legumes. Bot. Rev. 31:247 330. 1965.

DROUGHT

3. USDA Yearbook of Agriculture. 1937.

HEAT

13. PHYSIOLOGICAL RESISTANCE: (0 = Not tested; 1 = Susceptible; 2 = Resistant)

COLD

COLOR: Nickerson's or any recognized color fan may be used to determine the colors.

OTHER (Specify).

#### EXHIBIT B

Novelty Statement Concerning Gabriella (XP-B3011)

The commercial wax bean variety most similar to Gabriella to our knowledge is Bonanza Wax. Comparative characteristics which make Bonanza Wax a different variety include, but are not restricted to, the following:

1. Gabriella is resistant to the strain of Anthracnose, and fet this resistance also gives resistance to all other strains of Anthracnose, except the recently discovered Ebnet strain. Bonanza Wax is susceptible.

JDA 1/21/77 FORM GR-470-12 710-2-72)

# UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

EXHIBIT C (Bean)

### **OBJECTIVE DESCRIPTION OF VARIETY**

BEAN (PHALEOLUS VULGARIS) INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY		
Asgrow Seed Company	PVPO NUMBER		
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	7700066		
V-1 Wi-himm (0001	VARIETY NAME OR TEMPORARY DESIGNATION		
Kalamazoo, Michigan 49001	Cohmicallo		
	Gabriella		
Place the appropriate number that describes the varietal character of this variety in the boxes bel			
Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or 9 or less	· · · · · · · · · · · · · · · · · · ·		
1. TYPE:			
1 1 = SNAPBEAN 2 = GREEN SHELL 3 = DRY EDIBLE 4 = N	ULTIPURPOSE		
2. SEASON AND REGION OF ADAPTABILITY IN THE U.S.:			
2. SEASON AND REGION OF NOAF INDICETE IN THE COM.			
2 Grows best during: 1 = SPRING 2 = SUMMER 3 = FALL	4 = WINTER		
T NORTHWEST 2 NORTHERN 3 - NORTH	THEAST 4 = SOUTHEAST		
6 Best adopted in: 1 = NORTHWEST 2 = NORTHCENTRAL 3 = NOR 5 = SOUTHWEST 6 = MOST REGIONS	THENS!		
3. MATURITY (Days from seeding to first harvest):			
	7		
6 4 GREEN PODS GREEN SHELLS	DRY SEEDS		
[—] \ [—]			
	NTUCKY WONDER 3 = KINGHORN WAX		
	CHELITE 62 6 = DWARF HORTI — CULTURAL		
NO. DAYS LATER THAN	HER (Specify)		
4. PLANT:			
1 = DETERMINATE, ERECT BUSH 2 = DETERMINATE, SF 3 = DETERMINATE, SEMIPOLE 4 = INDETERMINATE,			
T ST DETERMINATE, SUMIFORE			
0 3 7 CM. HEIGHT OR LENGTH OF VINE FROM PRIMARY LEAF NODE			
	_		
O O S NUMBER PRIMARY BRANCHES PER MAIN STALK	CM. SPREAD		
	NUMBER INTERNODES ON MAIN STALK		
1 Branching habit: 1 = COMPACT 2 = OPEN	5 BETWEEN PRIMARY LEAF AND BASE OF TERMINAL INFLORESCENCE		
	TERMINAL INFLORESCENCE		
0 2 CM. LENGTH OF FIRST INTERNODE ABOVE PRIMARY LEAF	7 MM. STALK DIAMETER ABOVE		
	FIRST TRIFOLIATE LEAF		
2 Main stalk: 1 = BRITTLE 2 = WIREY 1 1. STOUT 2. THIN			
Flower position:	•		
1 = LOW, CONCENTRATED 2 = HIGH, CONCENTRATE	TED 3 = SCATTERED		
Pod Position:			
S. LEAVES:	•		
2 1 = SMOOTH 2 = WRINK'_ED 1 1 = DULL 2 = GLOSSY 1	Thickness: 1 = THIN 2 = MEDIUM 3 = THICK		
[1] 1-3022 2-30331 [1]	Intelligent, 1 - 11111 2 - MEDION 5 - 1111011		
1 Size: 1 = SMALL (Earliwax) 2 = MEDIUM 3 = LARGE (Tendercrop)	CM. PETIOLE LENGTH		
= Sec. 1- Small 2 - Medium 4 - CARGE (1 sinds crop)	(To basal lealists of first trifoliate leaf)		
2 Tip shape of center leaflet: 1 = ROUNDED 2 = TAPER POINTED 3 = S	HARP POINTED		
Z My shape of center texties.	AAR I OINTED		
2 PUBESCENCE - Dorsal:	-		
	CONSIDERABLE		
2 PUBESCENCE · Ventral:			
	•		
2 Colon 1 = LIGHT GREEN (Bountiful) 2 = MEDIUM GREEN 3 = DARK GREEN	(Bush Blue Lake)		
Color 1 - 1001 One Lit (Dominiary 2 - McDigs One Lit 3 - DARK GREEN			